WHAT IS CLAIMED IS:

- 1. A bioactive glass having a composition substantially comprising 30 to 60 mol % of CaO, 40 to 70 mol % of SiO₂, and 20 mol % or less of Na_2O .
- 5 2. The bioactive glass according to claim 1, further comprising CaF₂.
 - 3. The bioactive glass according to claim 1, further comprising B_2O_3 .
 - 4. The bioactive glass according to claim 1, wherein said bioactive glass has a glass transition temperature of 790°C or lower.
- 5. The bioactive glass according to claim 1, wherein a difference between its glass transition temperature and its crystallization initiation temperature is 80°C or more.
 - 6. The bioactive glass according to claim 1, wherein said bioactive glass generates a β -wollastonite crystal at a crystallization temperature.
- 7. A bioactive glass having a composition substantially comprising
 30 to 60 mol % of CaO, 40 to 70 mol % of SiO₂, and at least one of Na₂O,
 CaF₂ and B₂O₃, Na₂O being 20 mol % or less, CaF₂ being 1 mol %, and
 B₂O₃ being 5 mol % or less.
 - 8. The bioactive glass according to claim 1, wherein said bioactive glass is substantially free from P_2O_5 .
- 20 9. The bioactive glass according to claim 7, wherein said bioactive glass is substantially free from P_2O_5 .
 - 10. A sintered calcium phosphate glass comprising the bioactive glass recited in claim 1 as a sintering aid.
 - 11. The sintered calcium phosphate glass according to claim 10,
- wherein said sintered calcium phosphate glass comprises a calcium phosphate of a hydroxyapatite, a carbonated apatite or tricalcium phosphate.